



Isopropanol

1. Product and Company Identification

Product name Isopropanol
Supplier Walker Electronics Limited (contact details as above)

2. Composition Information on Ingredients

<u>Chemical</u>	<u>% Concentration</u>	<u>Classification</u>	<u>CAS</u>	<u>EINECS</u>
Isopropanol	>70%	F; R11-36-67	67-63-0	200-661-7

3. Hazards Information

Highly flammable liquid. Ingestion of large doses may lead to alcoholism. Repeated or prolonged skin contact may cause dermatitis.

4. First-aid Measures

	<u>Symptom</u>	<u>Treatment</u>
Inhalation		Remove from exposure, rest and keep warm. In severe cases or if recovery is not rapid or complete seek medical attention.
Skin contact		Drench skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin are damaged or if irritation persists seek medical attention.
Eye contact		Irrigate thoroughly with water for at least 10 minutes. Seek medical attention.
Ingestion		Wash out mouth with water. If patient is conscious, give water to drink. DO NOT induce vomiting. Seek medical attention.

Immediate treatment/antidote: Symptomatic treatment

5. Fire Fighting Measures

Extinguishing media:	
Suitable	Dry Chemical, Carbon Dioxide (CO ₂), sand or alcohol resistant foam.
Not suitable	Water jets
Hazardous combustion products	Oxides of Carbon.
Special fire fighting equipment	Self-contained breathing apparatus.

6. Accidental Release Measures

Safety precautions	Wear appropriate PPE (see section 8).
Environmental precautions	DO NOT discharge into drains or rivers. Any spillages into watercourses must be reported to the NRA
Methods of cleaning up:	Absorb with sand or earth and transfer to containers for waste disposal.

7. Handling and Storage

Handling	Good general ventilation is required. LEV may be required. Avoid sources of ignition. Avoid contact with skin and eyes. Avoid inhalation of vapours. Keep away from heat and hot surfaces
Recommended procedures and equipment	Avoid inhalation of vapour. Keep away from heat, hot surfaces and sources of ignition.
Storage	Cool temperature. Dry humidity. Keep away from – see section 10
Precautions against static discharge	Original tightly closed containers. Required. Use non-sparking tools and earth straps.

8. Exposure Controls/Personal Protection

Exposure limits	400ppm (980mg/m ³) 8hr TWA Type OES 500ppm (1225mg/m ³), STEL As Propan-2-ol
Monitoring method	
Personal Protective Equipment:	Type approved RPE for organic vapours and mists if required.
-Respiratory	Protective gloves made of Nitrile or butyl rubber.
-Hand protection	Safety spectacles/goggles
-Eye protection	Protective clothing – overalls and boots.
-Skin	Always wash after handling chemicals.
Hygiene measures	

9. Physical and Chemical Properties

Description	Colourless liquid	Boiling point/range	79 - 82 °C
Odour	Alcoholic	Melting point/range	Ca-88 °C
Explosive limits	2.5 – 12.7%	Autoignition temperature	>400 °C
Flash Point	12 open cup method	Vapour Pressure	4.16 kPa @ 20 °C
Relative density	0.785 – 0.825 @ 20 °C	Viscosity	3.057 cSt @ 20 °C
Solubility	Soluble in water. Miscible with alcohol and ether.		

10. Stability and Reactivity

Conditions to avoid	Heat, sparks, flames and sources of ignition; moisture.
Materials to avoid	Strong oxidising agents.

11. Toxicological Information

Causes eye irritation by OECD method 405. Prolonged or repeated skin contact may cause defatting resulting in dermatitis and secondary infections. Inhalation and ingestion may produce general narcotic effects similar to drunkenness – central nervous system depression, drowsiness, dizziness, disorientation, behavioural changes and hypotension.

LD ₅₀	5849mg/Kg oral –rat	>12800mg/kg skin-rabbit
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12. Ecological Information

Mobility	Soluble in water. Product is volatile and will partition to the air phase.
Degradability	BOD ₅₀ >78% ThODI
Bioaccumulation potential	Not expected to bioaccumulate, predicted BCF=1
Aquatic toxicity	LC ₅₀ , Feathered minnow = 9600 mg/l; LC ₅₀ , 24h, Daphnia >10000mg/l. Water endangering classification=WGK 1

13. Disposal Considerations

Substance	Via an authorised waste disposal contractor to an approved waste disposal site observing all local and national regulations.
Container	As substance. Used containers must not be cut up or punctured until completely purged of product residues.

14. Transport Information

Primary Hazard	Flammable Liquid	HI Number	33
UN Number	1219	Class/Item number	3
Packing group	11	Emergency Action Code	2[Y]E

15. Regulatory Information

Label Name	Isopropanol
Symbols	Highly Flammable and Irritant
Risk phrases	R11 – R36 – R67 Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.
Safety phrases	S7 – S16 – S24/25 – S26 Keep container tightly closed. Keep away from sources of ignition – No smoking. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
E.C. No.	200-661-7
Use of this material may be governed by the Highly Flammable Liquid Regulations 1972	
Users are advised to consult these regulations for further information. The information contained in this data sheet does not constitute an assessment of workplace risks.	

16. Other Information

Uses	Use only as directed.
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The attention of the user is drawn to the possible risks incurred by using the product for any other purpose than for which it was intended. It is the sole responsibility of the user to take all precautions required to handle this product.

The information is, to the best of our knowledge, true and accurate. It is given in good faith. No warranty is implied with respect to the quality or specification of the product. The information given is not exhaustive.